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(54) CALCIUM PHOSPHATE CEMENT HAVING SUSTAINED RELEASABILITY OF MEDICINE

(57)Abstract:

PURPOSE: To obtain a calcium phosphate cement having sustained releasability of medicine capable of packing in arbitrary place and needing not to take out from a living body after releasing medicine because of excellent operatability and affinity to the living body, reduced in stimulation to living body and curable in the vicinity of neutrality without impairing effect of a medicine.

CONSTITUTION: In a calcium phosphate cement having sustained releasability of medicine consisting of powder agent and liquid agent, containing a protein, etc., having specific action of a medicine such as antibiotic, anticancer agent or bone forming factor (BMP), a mixture obtained by mixing α type calcium tertiary phosphate with calcium primary phosphate, preferably calcium secondary phosphate 2 hydrate so that molar ratio of Ca/P may be 1.40-1.498, preferably 1.47-1.495 is used as a main ingredient of powder agent. The mixture is fast reacted in the presence of water in the neutrality of pH6-8 and cured while producing calcium 8 phosphate. As a result, the mixture is reduced in stimulation to living body and the effect of the mixed medicine is not impaired.

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